Mini Projector User's Guide

with Integrated Multimedia Player

Please read this manual before
operating product for the first time.

Model P50M

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WARNINGS

Important Safety Instructions

Caution: To prevent electric shock, match the wide blade on the power cord plug to the wide slot on an electrical outlet. If the plug does not fit, consult a licensed electrician to replace the obsolete outlet. Do not modify the power cord plug, or you will bypass this safety feature.

1. Do not use the projector near water.

2. Clean only with dry cloth.

3. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

4. Do not install near any heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

5. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

6. Only use attachments/accessories specified by the manufacturer.

7. Unplug the projector during lightning storms or when unused for long periods of time.

8. Refer all servicing to qualified service personnel. Servicing is required when the projector has been damaged in any way, such as when a power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the projector, the projector has been exposed to rain or moisture, does not operate normally, or has been dropped.

9. The projector should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the projector.

10. The projector should be used in a well ventilated area to prevent overheating.

Accessories

Remote Control

Power Adapter

Composite A/V Cable

VGA Cable

USB Cable

Rubber Stand

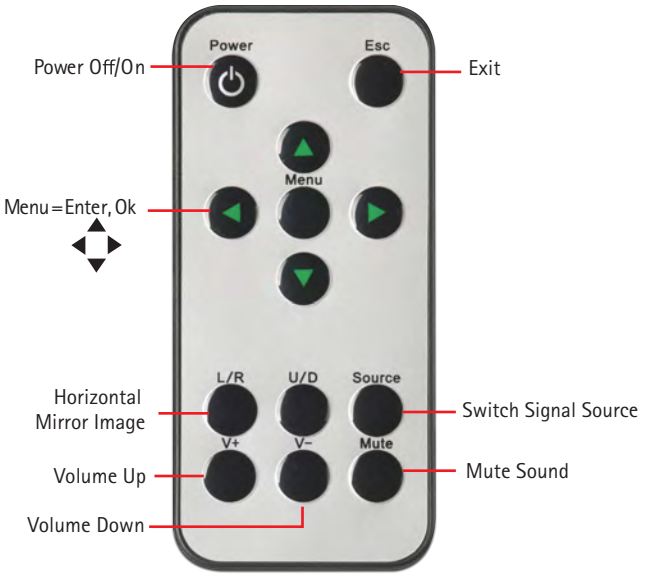
Carrying Bag

Overview

Front View

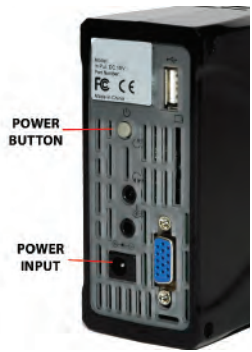
Rear View

Remote Control Functions

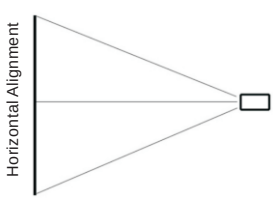


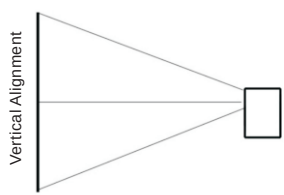
General Operation

Startup and Shut down – To start up, connect the power adaptor to the rear power input and plug in the adaptor. Press the power button, and the welcome logo will appear as the P50M starts. To shut down, hold the power button for 3 seconds until the optical engine turns off.



Positioning – Position projector level with the wall, screen or other surface on which you will projecting the image. Make sure the projector is at a right angle to the wall or screen, or the image will appear distorted.





General Operation

The projector can accept a 15-pin RGB input source from a laptop's external monitor port or graphics card. This source is connected through the 15-pin "VGA" port on the back of the projector.

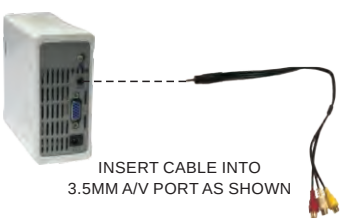
To connect via VGA input, plug the cable into the back of the projector. Then select the "VGA PC" option in the Main Menu. This will enable the projector to receive VGA signals.

Important: Be sure to setup the computer to enable video signal output. If you are using the P50M Mini Projector as an external monitor on Windows based systems, this can be done by selecting "extend my desktop to this monitor" in the Screen Resolution menu.
Note: Each computer system is different – please check with your owner's manual for how to properly output video signals. Some Apple® computers may require a DVI to VGA adapter.

Accepted Display Resolutions:
800x600 (native / optimal)
1024x720

Connecting an Audio/Video input source - The projector can accept different A/V (Audio/Video) sources through the A/V port. These sources are connected through a 3.5mm A/V cable adaptor.

Max Supported Resolutions:
NTSC: 720x480
PAL: 720x576



General Operation

To connect an A/V cable: Insert the 3.5mm portion into the A/V port of the projector and insert the male end of the source device's A/V cables into the 3.5mm A/V cable adaptor. Then click on either the "A/V input" icon in the main menu, or press "source" on the remote control and select "A/V input". A blue screen will appear and the projector will be ready to accept an A/V signal.

Possible A/V sources: Composite (included), iPhone® / iPod® (optional), Zune™ (optional), Playstation Portable™ (optional), and others.

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® and ™ denote registrered trademarks in the United States and other countries.

Focus Adjustment/Throw Distance

The focus can be adjusted by turning the wheel located at the front of the projector. The projector is capable of the following throw and focus distances:

Diagonal size (inch)	Diagonal size (mm)	Vertical size (mm)	Horizontal size (mm)	Throw distance (mm)
30	762	457	610	1250
40	1016	610	813	1666
50	1270	762	1016	2083
60	1524	914	1219	2499
70	1778	1067	1422	2916
80	2032	1219	1626	3332
90	2286	1372	1829	3749
100	2540	1524	2032	4166

Media Player

The Media Player plays and supports the following files: MPEG4, MP3, AVI, JPG. For supported video encoding please see the "specifications" section in this manual.

Pictures and videos can be accessed via an SD memory card, MultiMedia Card or USB storage device.To access files stored on the SD memory card or MultiMediaCard first insert the memory card in the SD card slot located on the back of the projector.

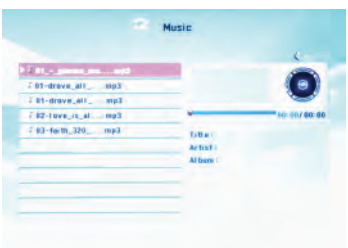
Power on the projector and select "SD Card". The SD Card submenu will appear.

Media Player

Viewing Photos – To view photos click on the "Photos" icon in the submenu. This will display all photos available on the SD Card. Click on a photo to display photos in the slideshow mode. While in slideshow mode you can scroll through photos by pressing the left or right buttons on the remote control. By pressing the menu button on the remote control you will bring up the control menu. Control menu functions include: **Previous picture, Pause / Play, Next Picture, Stop / Exit, Zoom, Rotate, and Image Adjustment.**

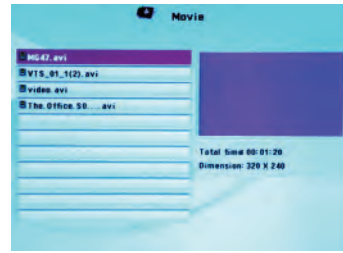
Image Adjustment
The Image adjustment menu allows the adjustment of Brightness, Contrast, and Color. The adjustment is on a scale of 0-9 and can be adjusted both through the adjustment menu or directly through the settings menu under LCD Adjustment.

Listening to Music – To listen to music click on the "Music" icon in the submenu. Select the music file from the list. To adjust volume use the volume buttons. To skip to another track press the right or left buttons on the remote control, or access the control menu by pressing the "menu" button on the remote control.



The Control Menu functions include: Previous Track, Next Track, Pause / Play, Stop / Exit.

Media Player



Playing Videos – To play videos click on the "Video" icon in the submenu. Select a video file from the list. If the video is large, please allow a few moments for the projector to process the file. If after a few minutes the projector is still unable to play the video, it may be an incompatible type. Remove any non-compatible videos from the SD Card. When playing the video you can select the previous or next video by pressing the left or right buttons on the remote control. Volume is controlled by the "V+" and "V-" buttons. The video control menu can be accessed by pressing the "menu" button. The Video control menu allows the selection of: previous or next video, fast forward or rewind (4x, 8x, 16x), Play / Pause, Stop / Exit, and Image Adjustment.

File Menu – The file menu allows deletion or copying of files between SD Card and PC or between USB Storage device and SD Card. To enter the file menu click on the "File" icon in the submenu. Select a file from the list. To delete the file select "delete". To copy the file select "copy".

USB On-The-Go & Data Transfer

USB On-The-Go

The P50M has the ability to read data from a USB storage device (such as memory sticks, cell phones, USB hard drives, etc).

To access data on your USB storage device, plug your USB device into the USB slot on the back of the P50M. Once the connection is made, select the USB Mode in the Home menu data will be available. After selecting USB Host you should now be able to access the data on the USB device through the Media Player. If the data does not appear, check the formatting of the file system on the USB device and also confirm that the device is compatible with a USB On-The-Go host device.

USB Data Transfer

To connect a USB cable to the back of the projector and a computer, select USB Device in the USB Mode Menu. The computer should auto-detect the connected projector and its SD Card as a "SD Card drive". Double-click the drive to open the drive contents and use as you would a standard USB flash drive.

NOTE: If the computer fails to detect the "SD Card drive", check to make sure the projector is in USB Device mode and do a search for new devices. If still unable to find the drive, please consult with your operating system's owner manual regarding detecting "SD Card drive".

Setup Menu

The Setup Menu can be accessed by clicking on the "Setup" icon in the main menu.

Slide Show Settings – The slide show settings allow the user to change the speed, transition style, and display mode of the slide show. "Fit to screen" or "normal" can also be selected. When "fit to screen" is selected, file sizes will be compressed or enlarged to the native resolution of the projector, which is 800x600. Pictures may become distorted when compressed or enlarged. "Normal" will display pictures in their actual resolution. For example a 400x300 picture will occupy approximately 25% of the area of an 800x600 picture.

Language – Changes the language of the user interface. Supports English, French, Spanish, German, Italian and Chinese.

Keystone Adjustment – The Keystone feature allows the user to adjust the image when the projector is not placed perpendicular to the horizontal centerline of the screen (angled up or down) which skews the output image, thereby making it trapezoidal. Only vertical keystone is available at this time. Use the "Left" and "Right" arrows on the remote to adjust the screen.

NOTE: This is a software function and does not change the optical image.

Screen Saver – The screen saver setting allows adjustment of the screen saver background. Choices include a moving logo or the slide show.

About – Projector information

Default – Reset to default settings

Troubleshooting

THE PROJECTOR DOES NOT TURN ON

POSSIBLE CAUSES	SOLUTION
There is no power	Check to ensure the power outlet or battery source is good. Check the power adapter to ensure a proper connection with the wall outlet as well as the projector.
The projector is in the shut-down cooling cycle	If you hear a fan, the unit is still running it's cooling cycle. Wait until the projector has fully cooled to restart.

THERE IS NO PICTURE

POSSIBLE CAUSES	SOLUTION
The video source is not properly connected.	Check the video source signal to ensure that it is properly connected.
The correct input source has not been selected.	Select the correct input source by pressing the Source key on the remote.

THE IMAGE IS BLURRED

POSSIBLE CAUSES	SOLUTION
The Projector is not in focus.	Adjust the focus with the focus adjustment dial until the image comes into focus.
The Projector is offset from plane/angle of operation.	Move the projector so that it is at both 180 degrees and on an even plane with the screen. Please see Page 6 for details.

SD CARD IS NOT RECOGNIZED

POSSIBLE CAUSES	SOLUTION
SD Card is not inserted properly.	Re-insert SD Card.
SD Card is damaged.	Replace SD Card.

Remote Control Does Not Work

POSSIBLE CAUSES	SOLUTION
The remote control battery is dead.	Replace the battery with compatible CR2025 battery.
The remote control is not being aimed properly	For best results, aim the remote control at the back panel of the projector.

Specifications

PROJECTION SYSTEM
Native Resolution: SVGA (800x600)
Brightness: 75 ANSI-Lumens
Contrast Ratio: 1000:1
Noise: <20 dBA
Projection Lens: Manual Focus
Projection Image: Available Size 9 ~ 100 inch
Lamp: Single Chip White LED
15,000 Hours
Projection Angle: 33.6
GENERAL SPECS
Audio Output: Onboard Dual 1w speaker
Stereo speaker/headphone mini-jack
Color: Pearlescent Gray
Supported Languages: English, French, Spanish, German, Italian, Chinese
Aspect Ratio Control: 4:3
Dimensions: 112*105*46mm
Weight: 13.7oz
Power Consumption: 12V - 19V, 30 Watts
Power Supply: AC100~240V(Free Voltage), 50Hz/60Hz
Supported Formats: (See Below)
Conformances: CE, UL

INPUTS / OUTPUTS
Video In: Composite A/V (3.5mm Jack)
PC / Laptop: 15 pin VGA (up to 1280x960)
Audio Out: 3.5mm Stereo Headphone Jack
USB: Standard/Type-A
Control System: Infrared Remote Control
STORAGE CAPACITY SD/TF card reader

Specifications
SUPPORTED FORMATS
AVI, MP4, RMVB, RM
CODECS SUPPORTED *MPEG-4: DivX-4, DivX-5, DivX-6, XviD, H.263+
*MPEG2/1
*MP3:
* MP2,PCM,AC3
*AVI (MPEG-4/MJPEG + MP3
HE AAC/MP2/PCM/AC3)
*MP4 (MPEG-4 + MP3/HE

Other

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions:
(1)This device may not cause harmful interference.
(2)This device must accept any interference received including interference that may cause undesired operation.

FCC Statement

Federal Communications Commission (FCC) statement
This Equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These Limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequencyenergy and, if not installed and used in accordance with the instructions maycause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
Product information is subject to change without prior notice.

Limited Warranty

What your warranty covers:
• Defects in materials or workmanship

For how long after your purchase:
• One year, from date of purchase

What we will do:
• Repair your unit or provide you with a replacement unit. The repaired or exchanged unit is under warranty for the remainder of the original product's warranty period, or ninety days, whichever is longer.

How you get service:

• Locate your proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period. Proof of warranty eligibility is required and must be presented to obtain warranty service.

• Contact RCA Customer Care at (800) 274-3014. Our representatives will help you troubleshoot and diagnose the problem. If the issue cannot be resolved by our Customer Care Team, you will be issued an RMA (Return Merchandise Authorization) number and be given instructions on how to submit your proof-of-purchase paperwork and where to send your defective merchandise.

• You will be responsible for shipping the defective unit back to our warranty fulfillment center at your own expense. You are responsible for damage or loss during shipment so insuring the product during return shipping is highly recommended.

• Upon receipt of your unit, we will repair or replace it and return to you freight pre-paid.

Limited Warranty

What your warranty does not cover:

• Customer instruction. (Your Instruction Book provides information regarding operating instructions and user controls. Additionally, our Customer Care Center is staffed 24x7 with product experts that can assist you with any questions that may arise during setup and use of your RCA projector)

• Installation and setup service adjustments

• Damage caused by accident, abuse or misuse

• Products that have been modified or serviced by non-authorized personnel.

• Products purchased from non-authorized retailers, dealers or resellers

• Products purchased or serviced outside the USA or Canada

• Acts of nature, such as, but not limited to lightning damage

• This warranty covers only normal use of the product. 24-hour-per-day or other excessive continual use causes strain and is not considered normal use.

• The air intake and exhaust vent must be clear of obstructions. Inadequate air ventilation might cause the projector to malfunction or will cause damage to the projector which will void the warranty.

Limited Warranty

Limitation of Warranty:

• THE WARRANTY STATED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED (INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY DISCLAIMED. NO VERBAL OR WRITTEN INFORMATION GIVEN BY TELEFIELD NA INC., ITS AGENTS, OR EMPLOYEES SHALL CREATE A GUARANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY.

•REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. TELEFIELD NA INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. THIS DISCLAIMER OF WARRANTIES AND LIMITED WARRANTY ARE GOVERENED BY THE LAWS OF THE STATE OF OREGON. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

How state law relates to this warranty:

• Some states do not allow the exclusion nor limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts so the above limitations or exclusions may not apply to you.

• This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

If you purchased your product outside the USA or Canada:
This warranty does not apply. Contact your dealer for warranty information.

Please do not send any products to the Oregon address listed in this manual or on the carton. This will only add delays in service for your product.

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